UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/747,698	12/22/2000	Clive C. Hayball	584-1038	9931

7590 06/16/2006	EXAMINER
Lee, Mann, Smith, McWilliams, Sweeney & Ohlson	HALIM, SAHERA

ART UNIT	PAPER NUMBER
2157	

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DATE MAILED: 06/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)
Office Action Summary	09/747,698	HAYBALL, CLIVE C.
	Examiner	Art Unit	
	Sahera Halim	2157	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>28 March 2006</u>.

2a)☐ This action is **FINAL**.　　　　2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-11,13 and 14* is/are pending in the application.

　　4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-6, 8, 13* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

　　Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

　　Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

　　a)☐ All　b)☐ Some * c)☐ None of:

　　　1.☐ Certified copies of the priority documents have been received.

　　　2.☐ Certified copies of the priority documents have been received in Application No. _____.

　　　3.☐ Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).

　　* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
　　Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
　　Paper No(s)/Mail Date. _____.

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

U.S. Patent and Trademark Office

PTOL-326 (Rev. 1-04)   Office Action Summary   Part of Paper No./Mail Date 20051006

DETAILED ACTION

1.   This action is responsive to communication received on March 28, 2006.

Claim 12 has been cancelled.

Claim Rejections - 35 USC § 103

1.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2.   Claims 1-6, 8 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Rochberger et al., U.S. Patent No. 6,205,146 (hereinafter Rochberger) in view of

Norris, U.S. Pat. No. 5,557,748 (hereinafter Norris).

1.   As to claim 1, Rochbeger teaches a method of indexing content in an IP-based

network comprising (abstract):

(a) intercepting data traffic flowing in the network (see col. 5 lines 51-57, packets

are intercepted on the network),

Rochbeger fails to teach explicitly (b) extracting content Identity information and

associated destination location information from the data traffic flow,

(c) generating a mapping from a content item identified by the extracted identity

information to at least one destination location identified by the associated, destination

location information, and

(d) storing the mapping in a content index database which is operable to provide,

an instance mapping containing list of destination locations in response to an instance

request containing a content identity.

However, these limitations are well known in the art as evidence by Norris.

Norris teaches (b) extracting content Identity information and associated destination

location information from the data traffic flow (see col. 4, line 41 –59),

(c) generating a mapping from a content item identified by the extracted identity

information to at least one destination location identified by the associated, destination

location information (See tables 1 and 2), and

(d) storing the mapping in a content index database which is operable to provide,

an instance mapping containing list of destination locations in response to an instance

request containing a content identity (See col. 4, line 51-59).

Having the teachings of Rochberger and Norris, it would have been obvious for a

person having ordinary skill in the art at the time of the invention to replace certain

features of Rochbeger with Norris in order to enable efficient routing and expand system

capabilities of Rochbeger.

2.   As to claim 2, a method according to claim 1, wherein the step of intercepting

traffic is carried out by Intercepting traffic flowing Into a cache, and wherein the method,

further comprises advertising the content Identities for which mappings are, stored in

the content index by sending advertising messages to a predetermined location (see

col. 5 lines 58-col. 6 lines 6).

3.   As to claim 3, a method according to claim 2, wherein the method further

comprises recording the time of traffic flows into the cache which are related to a

particular content and calculating the time period between a first flow of the content item

Into the cache and a subsequent flow of the content item into the cache thereby to

assess how long items are held in the cache before they are expired and deleting the

mapping relating to that content item when that content item is judged to have expired in

the cache (see col. 5 lines 58-col. 6 lines 6, the data is deleted when the timer expires).

4.   As to claim 4, a method according to claim 1, wherein the step of intercepting

traffic is carried out by intercepting traffic flowing out of an original content source (see

col. 5 lines 58-col. 6 lines 6).

5.   As to claim 5, a method according to claim 4, wherein the method further

comprises receiving an advertising message which advertises a mapping; generated

elsewhere on the network and which Is related to content items stored in the original

content source, and augmenting the content index using information contained iii the'

advertising message (see col. 5 lines 15-57).

6.   As to claims 8, and 13, a proxy for an IP-based network comprising:-

(a) a data input operable to receive data from the network (see col. 5 lines 15-57),

(b) a data output operable to send data to the network (see col. 5 lines 15-57),

(c) an identity extractor operable to analysis data received at the data input and to extract content identity information from the data (see col. 5 lines 15-57),

Rochbeger fails to teach explicitly (d) a location extractor operable to analyze data received at the data input and to extract location information from the data,

(e) a mapping generator operable to generate a mapping from a content , identified by identity information provided by the identity one destination location Identified by associated destination location Information provided by the location extractor, and

(f) a content index database operable to store a mapping provided by the mapping generator and which is operable to provide an instance mapping, containing a list of destination locations in response to an instance request containing a content identity.

However, these limitations are well known in the art as evidenced by Norris. Norris teaches (d) a location extractor operable to analyze data received at the data input and to extract location information from the data (see col. 4, line 41 – 59),

(e) a mapping generator operable to generate a mapping from a content , identified by identity information provided by the identity one destination location Identified by associated destination location Information provided by the location extractor (See tables 1 and 2), and

(f) a content index database operable to store a mapping provided by the

mapping generator and which is operable to provide an instance mapping, containing a

list of destination locations in response to an instance request containing a content

identity (See col. 4, lines 51 –59).

Having the teachings of Rochberger and Norris, it would have been obvious for

a person having ordinary skill in the art at the time of the invention to replace certain

features of Rochbeger with Norris in order to enable efficient routing and expand system

capabilities of Rochbeger.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sahera Halim whose telephone number is (703) 305-

8054. The examiner can normally be reached on Mondays and Thursday from 8:30-
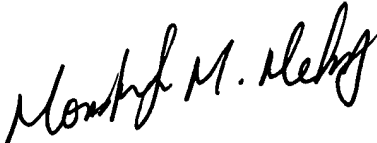
7:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ario Etienne can be reached on (571) 272-4001. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Sahera Halim
Patent Examiner
AU: 2157

June 12, 2006

MOUSTAFA M. MEKY
PRIMARY EXAMINER